2002 Pass1 summary and Pass2 status

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2002 Pass1 summary

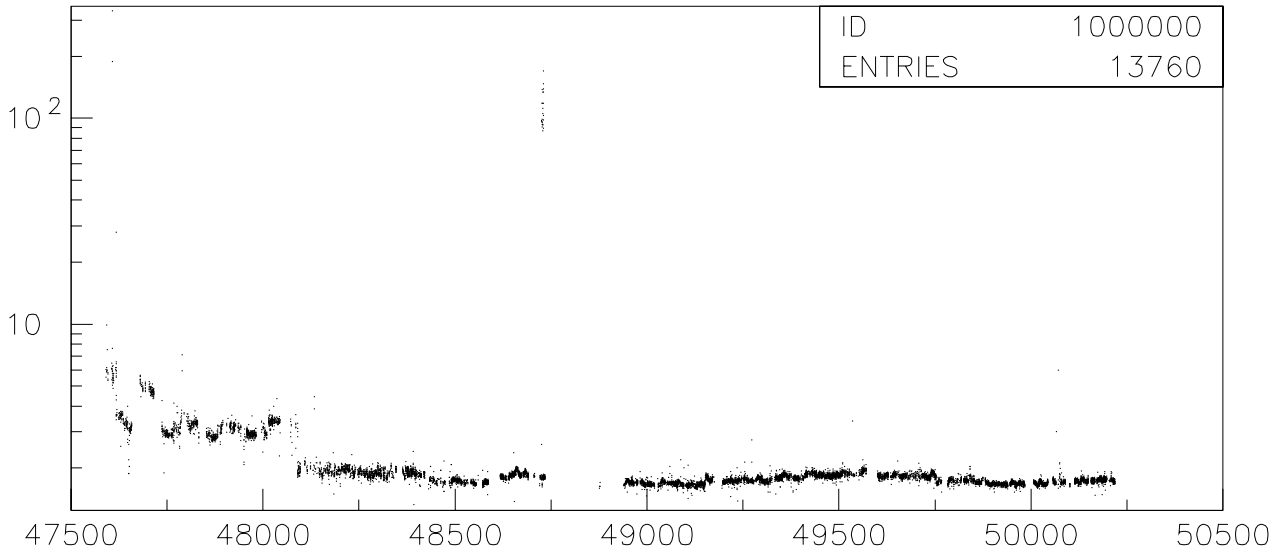
- Split between BNL and TRIUMF ($\sim 50\%$ each)
- Very low rejection: Loose TD, UTC; no PV; no compaction
- Only "1/3" sample was staged/analyzed
- All output to disk only: NO TAPE BACKUPS!
- BNL output copied to TRIUMF via bbftp
- Some hard-to-read tapes; otherwaise, basically uneventful

Pass1 cuts

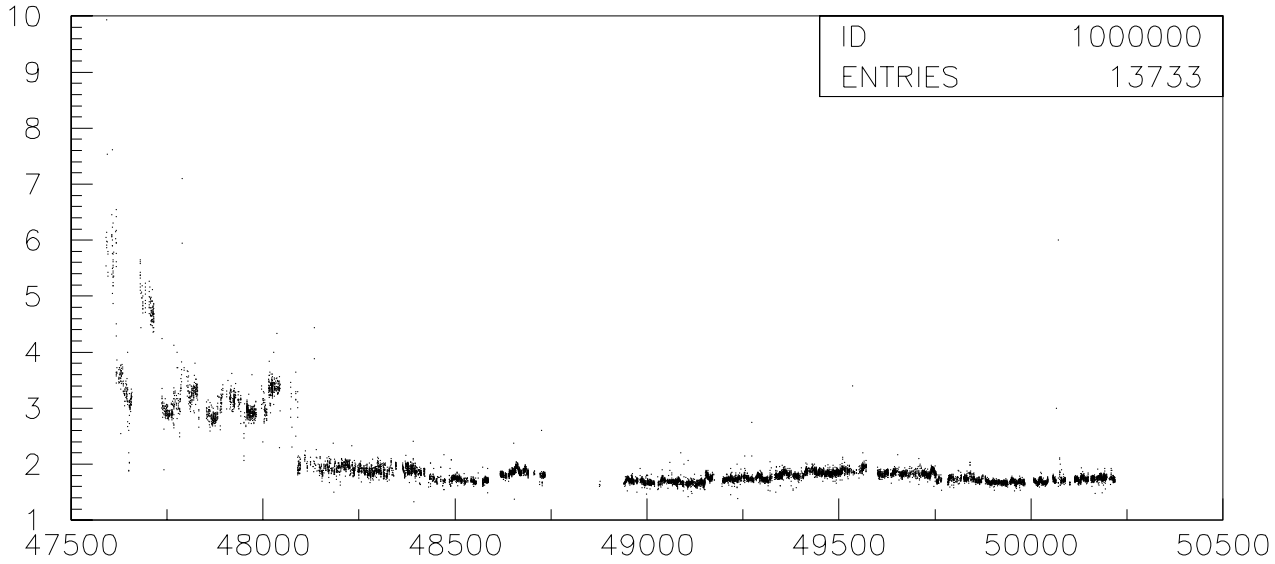
```
FUNC 0
PNN
PRESCALE/OFF 1.0
PRESCALE3/OFF 3.0
SKIMSEL/OFF 1. 0. 0. 1. 0. 0.
LISTSEL/OFF
ANYSKIM/OFF
DUPEV
PASS1
TRBIT  1.0  2.0
LEV11
LEV12
RD_TRK
STLAY
BAD_STC
RSHEX
TRKTIM
FITPI
UTC
RDUTM
RSHEX2
PDC
LAY14
UTC1/OFF
RANGE1/OFF
TARGET/OFF
INTIME/OFF 10.0
KPI2BOX/OFF
STOP
```

Statistics

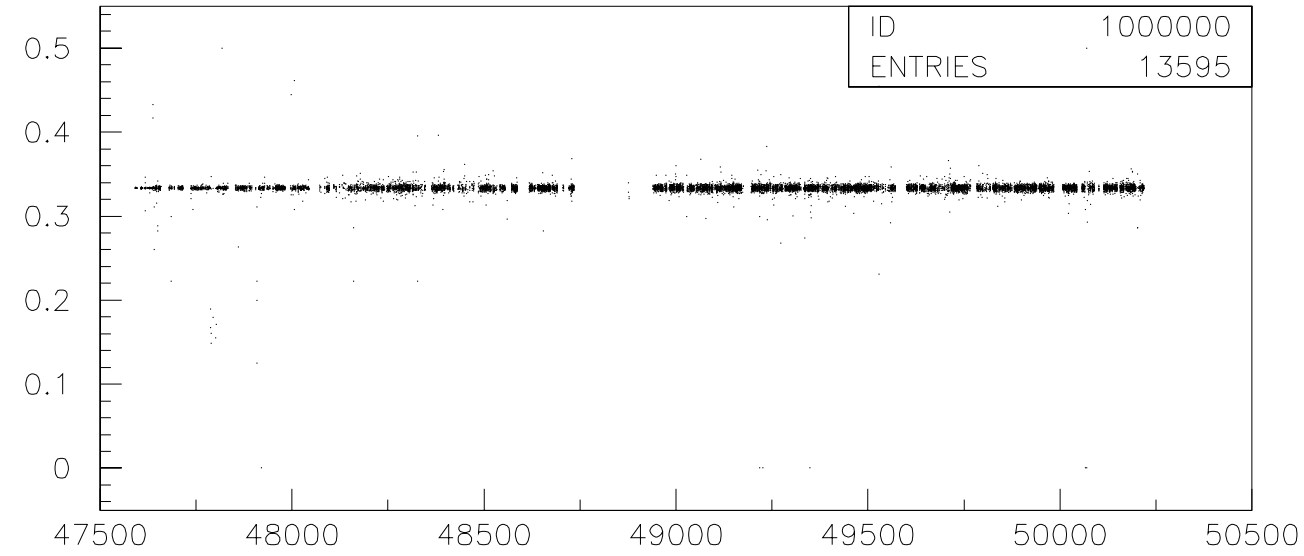
- # Raw tapes processed: 361
- # Runs: 1555
- # Spills: 783351 (794971) (783179)
- # Events read: 143451760
- # Events staged: 47808224 (48482360)
- # Events analyzed: 25962170
- $K_B(live)$: 1.78×10^{12}



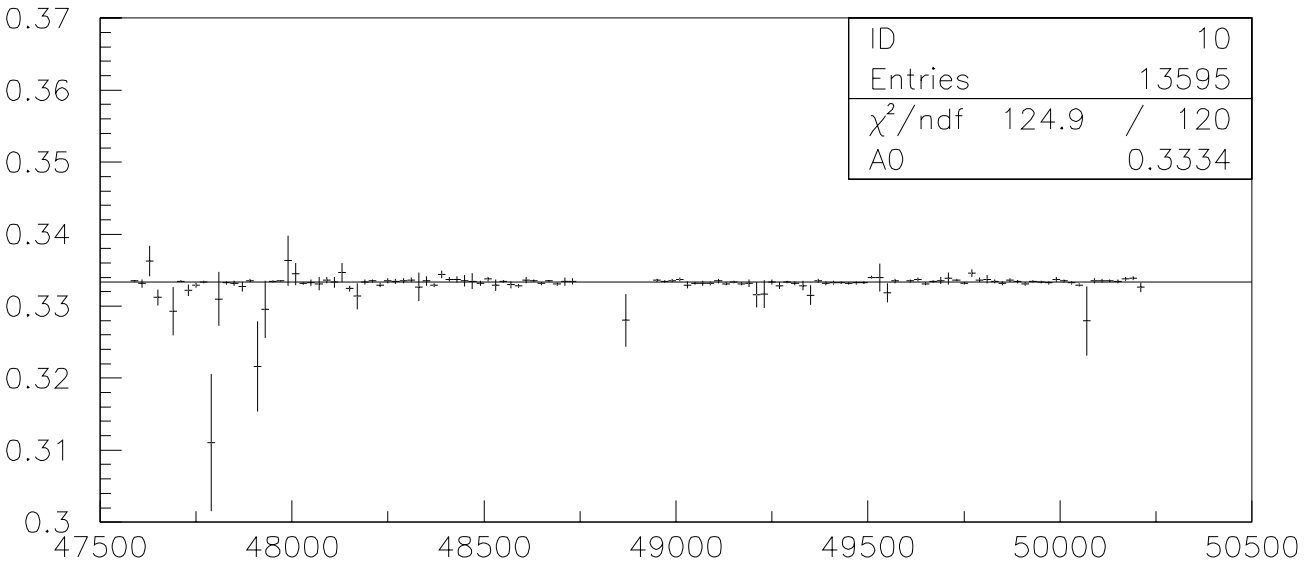
n1/p VS. run



n1/p VS. run



n1/(n1+n2) VS. run



prescale v. run

2002 Pass2 status

- Complete (sudden!) migration to Linux from IRIX
  - KOFIA/UMC/analysis code ports
  - Distributed pass2 processing on TRIUMF Linux farm (coming soon to BNL!)
  - Distributed post-pass2 ntuple analysis

- A lot of new/modified analysis code:
  - swathccd
  - BM: new beam devices: B4, AD, UPV, DPV
  - UTC/RSSC: New code for modified electronics
  - PV: BVL
  - RSTDC: How best to use in combination with TD's?
- Already through 2nd iteration of pass2 on 1/3 sample (~ 1 wk)
- Skimmed/ntskimmed data/ntuple sets available for pnn(1) studies
- In progress: checking/adjusting cut functions for b.g. studies

- Awaiting new code/calibrations for several key areas:
  - Pre-swathccd double-pulse fitting
  - Improved RS calibrations
  - Optimal use of RS TD/TDC information (many places. . .)
  - MC-based RS tracking code
  - Finalization of pnn(2) skim stream
- Near future: Web-based bookkeeping, data-tracking, analysis functions

Plans and schedule

- Finalization of new code: hoping to see test results; new code: 1 month?
- Finalization of calibrations: RSMON, kin., PV, TD, etc.: 1 month?
- Final cut selection/optimization; outside-the-box studies : 2 months?
- Re-process data with absolute, final code/calibrations.

$$((1\,wk \times 3)/2) \times X$$

X: slowdown-factor from new software: swathccd, "MC-Trkrng", various other cpu-intensive routines. X may also include another factor of 0.5 if the code and scripts can be ported to the BNL ITD farm.

- Final examinations on 1/3, 2/3 far-afield backgrounds; cut adjustments if necessary — implies all background functions finalized both inside/outside signal area. 4 months??